

**Boston University**

**OpenBU**

**<http://open.bu.edu>**

---

Chemistry

The Betulin Project

---

2014

# The Betulin Project Introduction

## 2014 - Accompanying Slide Show

---

<https://hdl.handle.net/2144/12965>

*Boston University*

# The Betulin Project – Fall Semester CH 203, 2014 Boston University

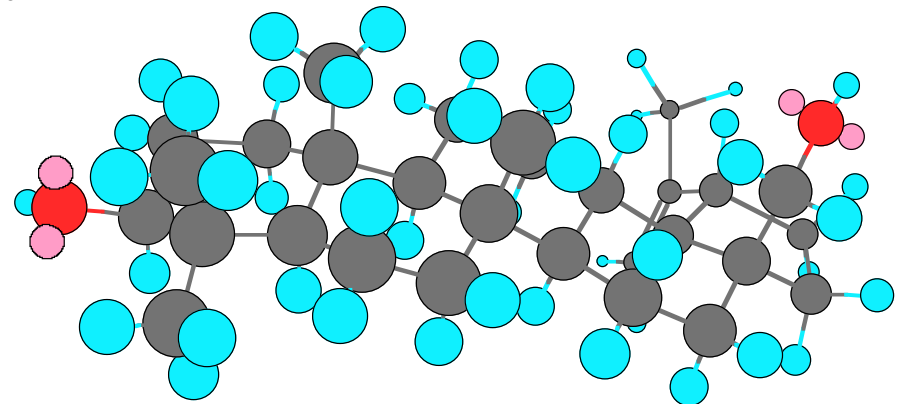
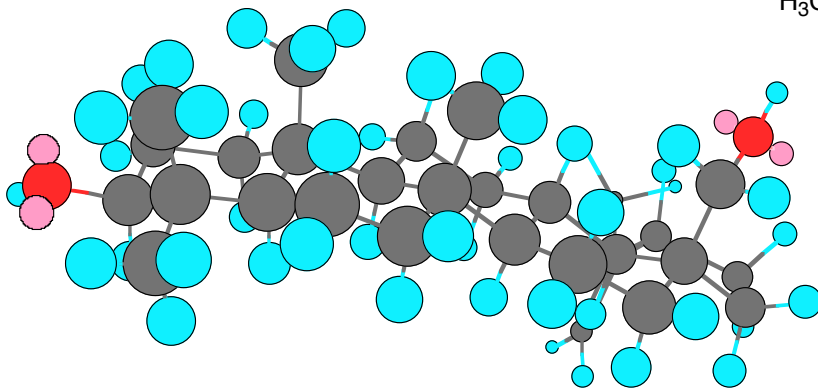
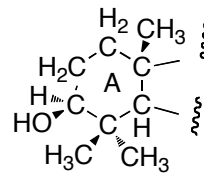
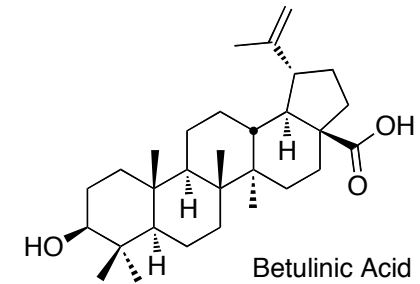
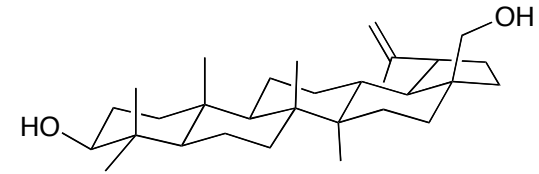
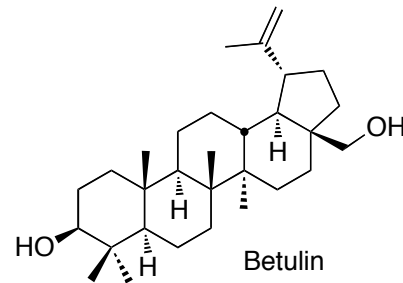
Instructor: Prof. John K. Snyder

Laboratory Fellow: Dr. Ya Zhou, PFF

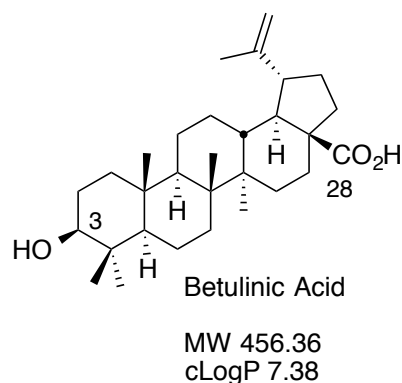
Betulin Group Meetings – Thursdays, 3 pm

Betulin Laboratory: Alternate Fridays, 1 - ? pm

# *Betulin: Protective Compound from White and Paper Birch*

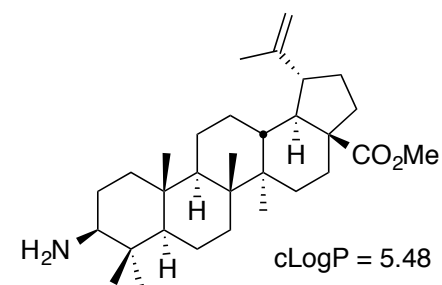
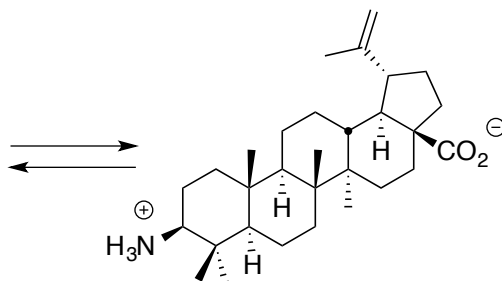
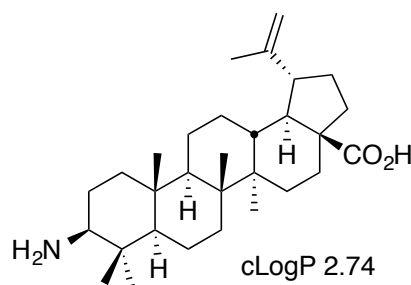


# Anti-Melanoma – Betulinic Acid



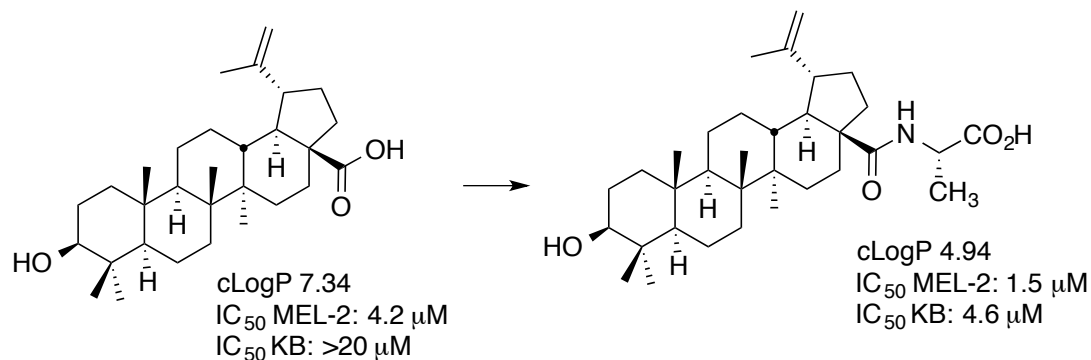
## Lipinski's Rule of Five

- 1) No more than 5 Hydrogen Bond Donors (N-H and O-H)
- 2) No more than 10 Hydrogen Bond Acceptors (all N's and O's)
- 3) MW less than 500
- 4) cLogP = 5 or less

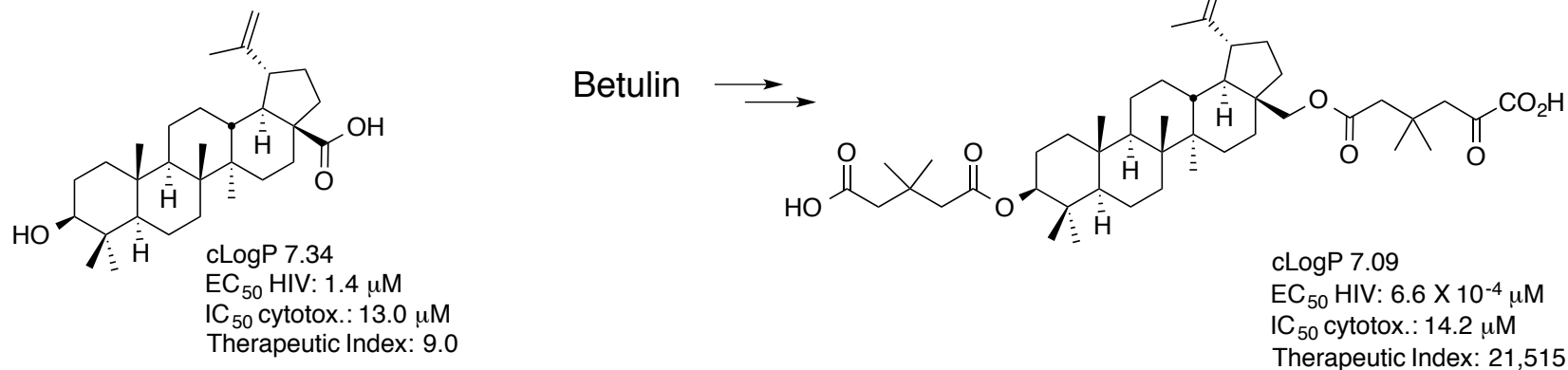


# Betulinic Acid Derivatives

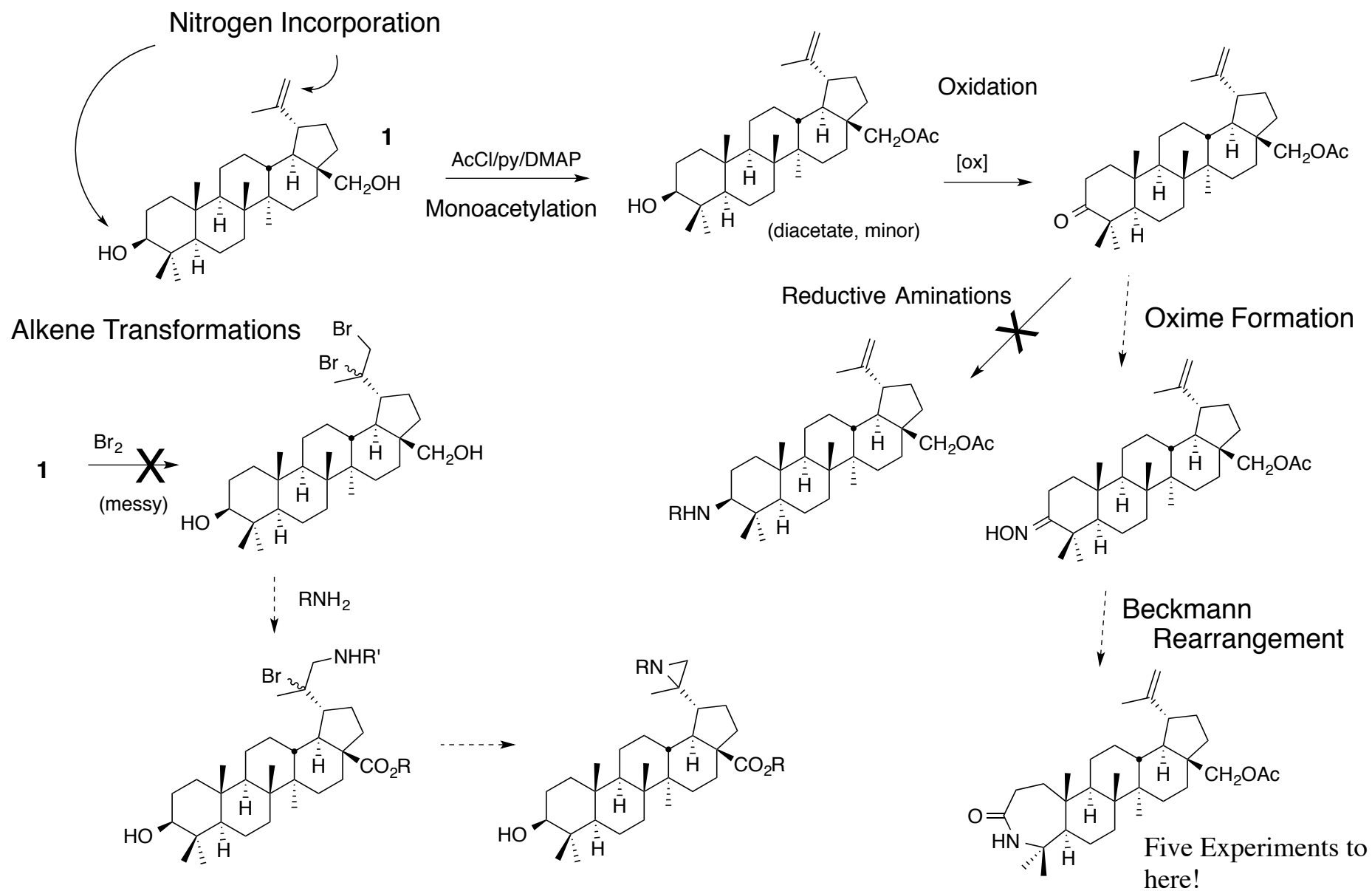
## Anti-Melanoma



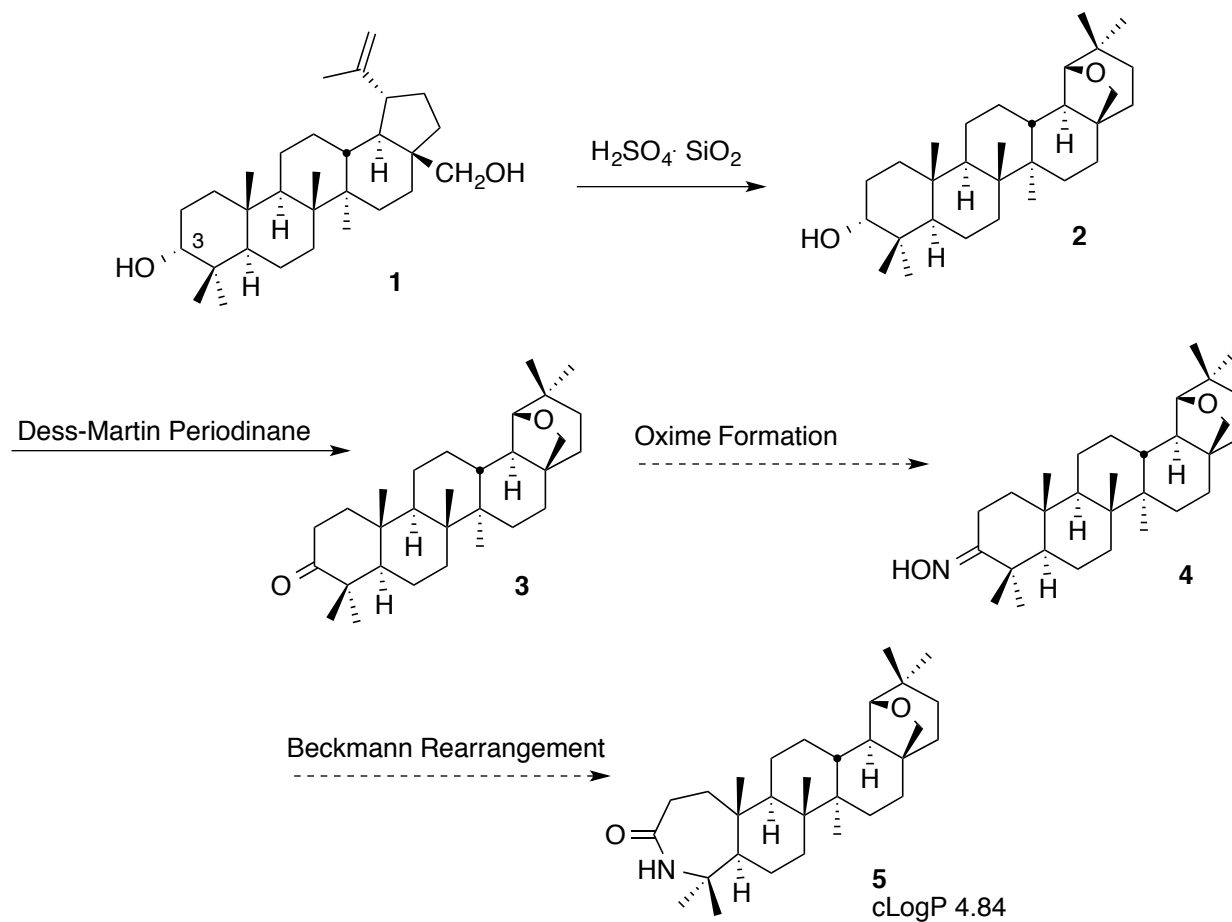
## Anti-HIV



# Last Year's Progress



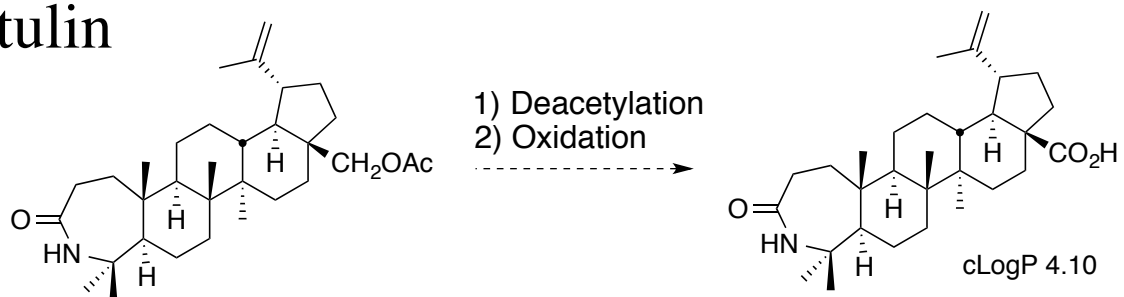
# Allobetulin Analogues



Five Experiments to here!

# Ultimate Targets

From Betulin



From Allobetulin

